

## ABSTRACT OF THE DISCLOSURE

A technique for fabricating the required surface shapes for micro optical elements, such as curved micro mirrors and lenses, starts with a simple, binary for example, approximation to the desired surface shape. Then polishing, *e.g.*, chemical mechanical polishing (CMP), is used  
5 to form the smooth optical surface. Specifically, starting with a mesa or blind hole, with a mesa profile, a smooth mirror or lens structure is fabricated.